

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/002043

A. CLASSIFICATION OF SUBJECT MATTER  
Int.Cl<sup>7</sup> H04R3/00, 1/02, 1/32

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> H04R3/00, 1/02, 1/32

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

|                           |           |                            |           |
|---------------------------|-----------|----------------------------|-----------|
| Jitsuyo Shinan Koho       | 1922-1996 | Jitsuyo Shinan Toroku Koho | 1996-2005 |
| Kokai Jitsuyo Shinan Koho | 1971-2005 | Toroku Jitsuyo Shinan Koho | 1994-2005 |

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|-----------|--|-----------------------|
| Y<br>A    | JP 2003-251583 A (Japan Science and Technology Agency),<br>09 September, 2003 (09.09.03),<br>All pages; all drawings<br>(Family: none) | 1-3<br>4-8            |
| Y<br>A    | JP 2003-340764 A (Matsushita Electric Works, Ltd.),<br>02 December, 2003 (02.12.03),<br>All pages; all drawings<br>(Family: none)      | 1-3<br>4-8            |
| A         | JP 2003-285286 A (NEC Corp.),<br>07 October, 2003 (07.10.03),<br>All pages; all drawings<br>(Family: none)                             | 1-8                   |

 Further documents are listed in the continuation of Box C. See patent family annex.

|   |     |  |
|---|-----|--|
| * Special categories of cited documents:  | -T- | later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  |
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| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | -&- | document member of the same patent family  |
| "O" document referring to an oral disclosure, use, exhibition or other means  |     |  |
| "P" document published prior to the international filing date but later than the priority date claimed  |     |  |

Date of the actual completion of the international search  
09 May, 2005 (09.05.05)Date of mailing of the international search report  
24 May, 2005 (24.05.05)Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                                     | Relevant to claim No. |
|-----------|--|-----------------------|
| P, A      | JP 2004-318026 A (Tomohito NAKAGAWA),<br>11 November, 2004 (11.11.04),<br>All pages; all drawings<br>(Family: none)    | 1-8                   |
| P, A      | JP 2004-295059 A (Yukiya HARADA),<br>21 October, 2004 (21.10.04),<br>All pages; all drawings<br>(Family: none)         | 1-8                   |
| P, A      | JP 2004-286805 A (Sony Corp.),<br>14 October, 2004 (14.10.04),<br>All pages; all drawings<br>(Family: none)            | 1-8                   |
| A         | JP 11-258101 A (Honda Motor Co., Ltd.),<br>24 September, 1999 (24.09.99),<br>All pages; all drawings<br>(Family: none) | 1-8                   |